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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,421	11/21/2003	John Eric Peckham	03-0388 (US01)	3394
41696 7590 03004/2010 VISTA IP LAW GROUP LLP 12930 Saratoga Avenue			EXAMINER	
			CHENG, JACQUELINE	
Suite D-2 Saratoga, CA 9	5070		ART UNIT	PAPER NUMBER
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			MAIL DATE	DELIVERY MODE
			03/04/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/719,421 PECKHAM, JOHN ERIC Office Action Summary Examiner Art Unit JACQUELINE CHENG 3768 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 01 December 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-15.17-19.21-27.36 and 37 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-15,17-19,21-27,36 and 37 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informat Patent Application

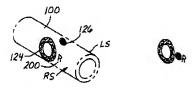
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DETAILED ACTION

Response to Arguments

- Applicant's amendments and arguments filed December 1, 2009, with respect to the objections to the drawings, the 35 U.S.C. 112 first paragraph rejections, the 35 U.S.C. 102(e) rejection as anticipated by Hyde (US 6,957,098), the 35 U.S.C. 102(b) rejection as anticipated by Lombardi (US 5,824,042), the 35 U.S.C. 103(a) rejections as being obvious over Makower'311 (US 6,579,311) in view of Makower'875 (US 6,302,875) and the 35 U.S.C. 103(a) rejection as being obvious over Ellis (US 6,416,490) have been fully considered and are persuasive. These objections and rejections have been withdrawn.
- 2. Applicant's arguments filed December 1, 2009, with respect to the 35 U.S.C. 103(a) rejections as being obvious over Makower'875 have been fully considered but they are not persuasive. The examiner respectfully disagrees with the applicants arguments that Makower'875 does not disclose a first and second directional indicator wherein the images of the indicators connect to form a symbol when viewed from a proper rotational orientation. The two indicators as discussed in the previous office action are the "O" element 126 in fig. 6b which is offset from the "R" element 200 in fig. 6b. These two symbols when viewed from a proper rotational orientation combine (connect) to form a symbol of "O R" as can be seen in fig. 6b. Furthermore if one was to instead of taking an image from a perpendicular viewpoint to the medical device, take an image from an angle (such as the angle shown in fig. 6b) the proper rotational orientation would be where the device's first and second indicators touch to form a symbol of OR (see right side of image below).

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3. It is therefore believed that the previous rejections of Makower'875 and rejections with Makower'875 as the base reference or secondary reference dated September 3, 2009 still stand and have been repeated below along with new rejections of Lombardi (US 5,824,042) in view of Makower'875, Makower'311 in view of Makower'875 in reference to the new claim limitations.

Claim Objections

4. Claims 17, 18, and 21-23 are objected to because they claim dependency off of canceled claims. Claims 17 and 18 have been examined as if they depended off of claim 15, claims 21-23 have been examined as if they depended off of claim 19. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- Claim 36 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described

in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The specification does not disclose an embodiment which has the marker wire having a first and a second end offset from each other in a circumferential direction and along the length of the medical device in combination with the first and second directional indicators that connect in an image to form a symbol when viewed in the proper rotation.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
 obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1-7, 12, 15, 18, 19, 23-25, and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Makower'875 (US 6,302,875 B1). Makower'875 teaches markers that can be used in conjunction with any passageway-forming catheters such as catheters, catheter sheaths, and balloon catheters with lumens and ports (abstract, col. 25 line 46-67). The passive marker has two portions (first portion and third portion) extending in a circumferential direction and two portions (second portion and fourth portion) extending in a direction parallel to the longitudinal axis of the medical device which forms a continuous closed circuit (fig. 6b element 124) as well as a first directional indicator (fig. 6b element 200) and a second directional indicator (fig. 6b element 126) offset from the first directional indicator which forms a symbol of a target and R when viewed at a proper rotational orientation (the symbol is viewable over a rotational range of

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5 degrees) to help in determining a rotational orientation of the device. The catheter is inserted into a bodily lumen and maneuvered to a desired location and then using the marker symbols, is rotated to the desired rotational orientation (col. 1 line 25-col. 2 line 20, col. 15 line 8-18). Makower'875 discloses that the markers of fig. 6b be made from radiopaque materials so it would be obvious to use any well known radiopaque material such as a metal wire as previously disclosed in Makower'875 (col. 16 line 23-24).

- 9. Claims 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Makower'875 in view of Nash (US 2002/0032432 A1). Makower'875 discloses most of what is claimed except for the symbol being an arrow. It would be obvious to use any type of rotational indicator such as an arrow instead of the "R" as disclosed by Makower'875 as the style of rotational indicator is a design choice and using an arrow as a rotational indicator is well known in the art such as disclosed by Nash. Nash discloses using an arrow symbol as a rotational indicator (fig. 1 element 38, paragraph 0036).
- 10. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Makower'875 in view of Makower'311 (US 6,579,311 B1). Makower'875 discloses most of what is claimed as disclosed above except for the first and second directional indicator forming an arrow symbol. Makower'311 discloses the same type of rotational orientation marker devices wherein only three different embodiments as shown, however any other geometrical designs may be provided such that when visualization of a particular geometry occurs, it may be said that a proper orientation of the device has been achieved, or even non-geometrical makers can be used as long as it provides proper orientation of the device (col. 10 line 50-59). Therefore it would be obvious to use a well known geometric shapes such as angular lines which forms a particular geometry of

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an arrow. Furthermore the shape of the marker device is a design choice as both provide the same function of determining proper rotational orientation of a device.

- 11. Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Makower'875 in view of Makower'311. Makower'875 discloses using marker symbols to determine proper rotational orientation of a device. One of such embodiments (fig. 6a) has a marker in the shape of the letter R (element 200), and then two directional indicators (elements 122a and 122b) which when viewed from a proper orientation connect to form a symbol of "--". Makower'311 discloses the same type of rotational orientation marker devices and that any other designs may be used so long as it provides for proper orientation of the device (col. 10 line 50-59). So therefore it would be obvious to use instead of the letter R to use a letter G which would have a first end and a second end offset from each other in a circumferential direction and along the length of the device. Furthermore Makower'875 discloses that the markers can be made from radiopaque materials so it would be obvious to use any well known radiopaque material such as a metal wire as previously disclosed in Makower'875 (col. 16 line 23-24).
- 12. Claims 1-6, 13, 24, 25 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Makower'311 further in view of Makower'875. Makower'311 teaches a catheter comprising a lumen and a port with a passive marker that has two portions (first portion and third portion) extending in a circumferential direction and two portions (second portion and fourth portion) extending in a direction parallel to the longitudinal axis of the medical device to form a continuous closed circuit (fig. 3c, 3d). The catheter is inserted into a bodily lumen and

maneuvered to a desired location. Once placed in a desired location the device is rotated until the operator sees that the marker is aligned properly (col. 10 line 1-22). The passive marker device can be created using any known set of materials which would allow for radiographic, fluoroscopic, magnetic, sonographic, or electromagnetic detection of the position and orientation of the device (col. 9 line 6-10) so it would be obvious to use any well known material such as disclosed by Makower'875. Makower'875 discloses using wire to form an imagable marker (col. 16 line 23-24). Makower'875 further teaches besides just a marker in a circular shape, the marker has two directional indicators which connect to form a symbol when rotated in the proper orientation. It would be obvious to add the two directional indicators such as the "O" (element 126, fig. 6b) and the "R" (element 200, fig. 6b) of Makower'875 to Makower'311 for the purpose of making sure that the medical device is properly rotationally orientated, in particular to be certain that the device isn't rotated 180° from the desired orientation.

- 13. Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over Makower'311 in view of Makower'875 further in view of Plaia (US 6,497,711 B1). Makower'311 discloses that the catheter device is used as an access port through which a procedure may be performed such as ablating a volume of tissue. It would be obvious to use any well known device with the catheter device of Makower'311 depending on the procedure desired to be performed such as using a rotating ablation device as disclosed by Plaia (abstract) if an ablation of tissue was desired to be performed.
- Claims 1-6 and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 Flaherty (US 6,660,024 B1) in view of Makower 875. Flaherty discloses a medical device such

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as a catheter having a lumen and port that has a marker for determining rotational orientation of the device. The marker comprises two portions (first portion and third portion) extending in a circumferential direction and two portions (second portion and fourth portion) extending in a direction parallel to the longitudinal axis of the medical device which forms a continuous closed circuit (fig. 3f). The marker surrounds an imaging transducer which is positioned closely adjacent to an exit port rendering the marker extending about a rim of the port, Furthermore in another embodiment the exit port is located directly at the point at which the transducer is affixed rendering the marker extending around and surrounding the rim of the port (col. 9 line 19-60). Flaherty does not explicitly disclose what the marker is made of. It would be obvious to use any well known radiopaque marker well known in the art such as wire as disclosed by Makower'875 (col. 16 line 23-24). Flaherty also does not disclose two directional indicators connecting together to form a symbol. Makower'875 discloses having two directional indicators such as an "O" and a "R" which connect to form a symbol ("O R"). It would be obvious to add two directional indicators to the marker of Flaherty for the purpose of making sure that the port is aligned properly and is not flipped 180° from the proper rotational orientation.

15. Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over Flaherty in view of Makower'875 further in view of Plaia (US 6,497,711 B1). Flaherty discloses a marker extending around and surrounding the rim of an exit port of which any instrument such as a tissue penetrator can be used for exiting out of the exit port. It would be obvious to use any well known device with the device of Flaherty depending on the procedure desired to be performed such as ablating a volume (penetrating tissue) using a rotating ablation device as disclosed by Plaia (abstract)

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- 16. Claims 1-5, 8-11, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lombardi (US 5,824,042) in view of Makower'875. Lombardi discloses a marker attached to a medical device such as a stent or a stent-graft. The marker extends such that two portions (first portion and third portion) extends in a circumferential direction and two portions (second portion and fourth portion) extending in a direction parallel to the longitudinal axis of the medical device forming a continuous closed circuit (fig. 10a, 10b, and below). Furthermore the top of the graft is aligned with the closed area defined by the marker wire. Lombardi does not teach a first and second directional indicators offset from one another wherein image of the first and second directional indicators connect to form a symbol. Makower'875 discloses a first (fig. 6b element 126) and second (fig. 6b element 200) directional indicators offset from one another which connect to form a symbol ("O R"). It would be obvious to add the two directional indicators of Makower'875 to Lombardi for the purpose of making sure that the graft is properly rotationally aligned and is not flipped 180° from the proper rotational orientation.
- 17. Claims 15, 19, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Armstrong (US 2002/0099431 A1) in view of Makower'875. Armstrong discloses a stent which is covered by a partial graft wherein the stent graft is aligned with a radiopaque marker. Armstrong does not explicitly disclose what type of radiopaque marker is used. It would be obvious to use any radiopaque marker such as disclosed in Makower'875 as discussed above.

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Conclusion

- 18. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 19. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.
- Any inquiry concerning this communication or earlier communications from the
 examiner should be directed to JACQUELINE CHENG whose telephone number is (571)272 5596. The examiner can normally be reached on M-F 10:00-6:30.
- 21. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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22. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jacqueline Cheng/ Examiner, Art Unit 3768 /Long V Le/

Supervisory Patent Examiner, Art Unit 3768